

Generation and Reservoirs Statistics

April 14, 2024



PUBLIC UTILITIES COMMISSION OF SRI LANKA

1. Daily Generation Mix in MWh

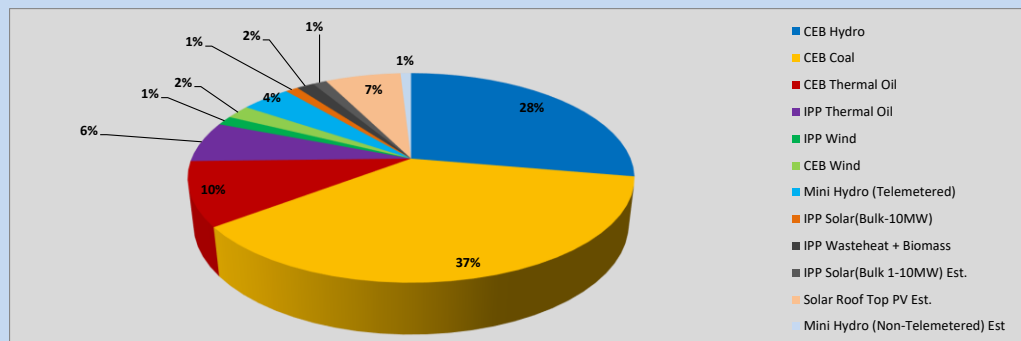


Table 01

	Generation (MWh)
CEB Hydro	8,802
CEB Coal	11,748
CEB Thermal Oil	3,143
IPP Thermal Oil	1,991
IPP Wind	458
CEB Wind	674
Mini Hydro (Telemetered)	1,360
IPP Solar (Bulk)	350
IPP Waste heat + Biomass	474
Total Generation (Excluding estimated figures)	29,000
* Estimated unserved energy	0
* Estimated Mini Hydro (Non telemetered)	290
* Estimated IPP Solar PV (Bulk 1-10MW)	385
* Estimated Solar Roof Top PV	2080
Total Generation (Including estimated figures)	31,755

* Estimated figures of CEB generation report

Table 02

	Installed Capacity (MW)
CEB Hydro	1644
CEB Coal	810
CEB Thermal Oil	773.1
IPP Thermal Oil (West Coast)	270
IPP Wind	163
CEB Wind	100
Mini Hydro	422
IPP Waste heat + Biomass	54
IPP Solar	137
Rooftop Solar (Ordinary)	293
Rooftop Solar (LT Bulk)	272
Rooftop Solar (HT Bulk)	74

Data Source - Monthly Review Report [Nov-2023]

2. Cumulative Dispatch

Following data excludes the contribution from roof top solar, non telemetered solar and mini hydro plants

Table 03 - Current Month

Category	Dispatch (GWh)	
CEB Hydro	155	24.47%
CEB Coal	247	39.04%
CEB Thermal Oil	84	13.27%
IPP Thermal	70	11.09%
SPP Wind	4	0.64%
CEB Wind	4	0.62%
Mini Hydro *	24	3.81%
IPP Solar *	39	6.25%
IPP Waste heat + BMP	5	0.81%
Total	632	

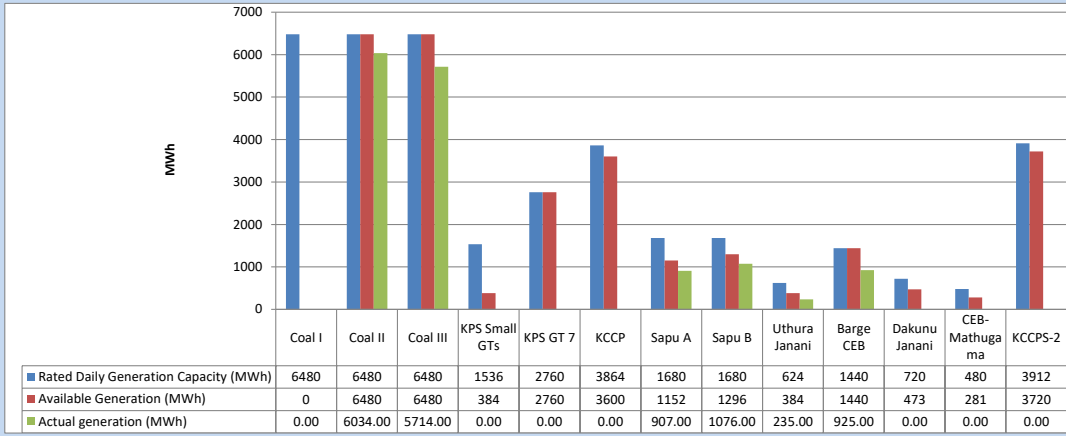
Table 04 - Current Year

Category	Dispatch (GWh)	
CEB Hydro	1,418	30.42%
CEB Coal	1,723	36.97%
CEB Thermal Oil	463	9.93%
IPP Thermal	401	8.61%
SPP Wind	50	1.08%
CEB Wind	59	1.27%
Mini Hydro *	259	5.56%
IPP Solar *	249	5.34%
IPP Waste heat	38	0.82%
Total	4,661	

*Including estimated contribution from non telemetered plants

3. CEB owned Thermal Plant Dispatch

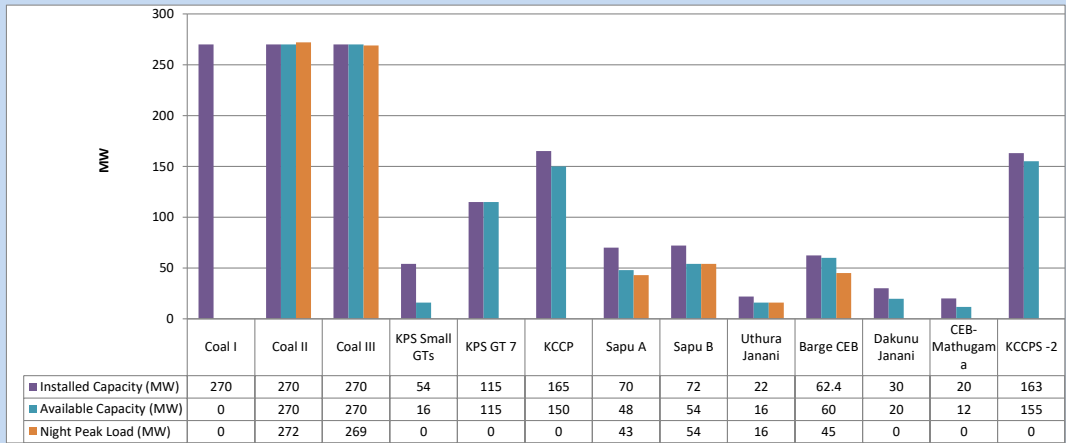
April 14, 2024



Available Generation is estimated based on plant availability at 6.00am on

April 15, 2024

4. CEB owned Thermal Plant Loading at the Night Peak

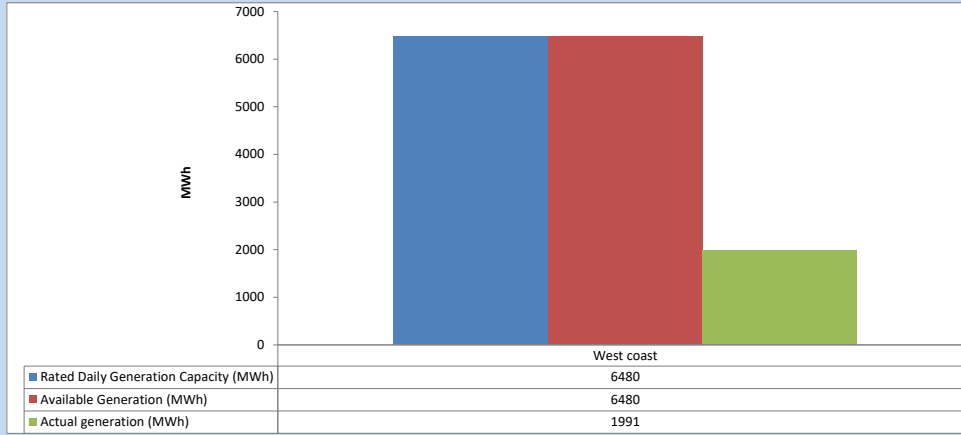


Plant availability is recorded at 6.00 am on

April 15, 2024

5. IPP owned Thermal Plant Dispatch

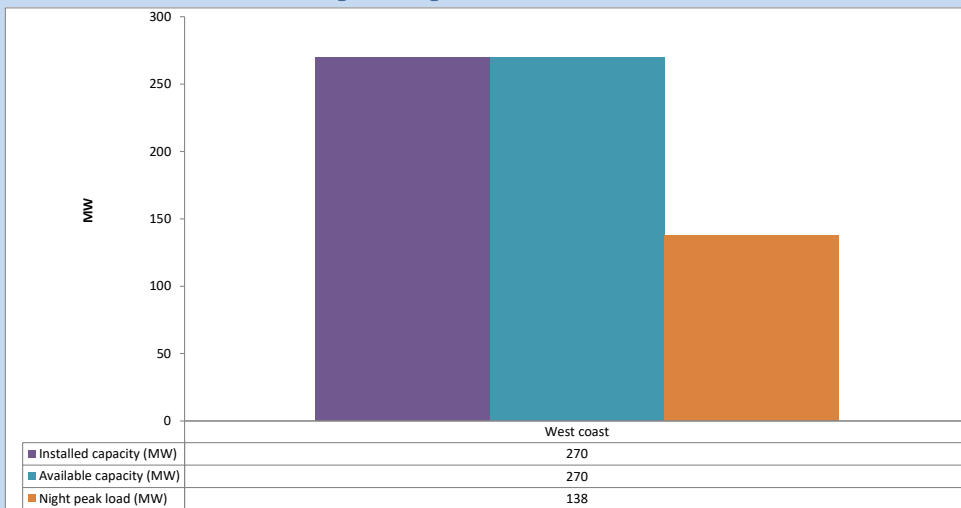
April 14, 2024



Available Generation is estimated based on plant availability at 6.00am on

April 15, 2024

6. IPP owned Thermal Plant Loading at the Night Peak

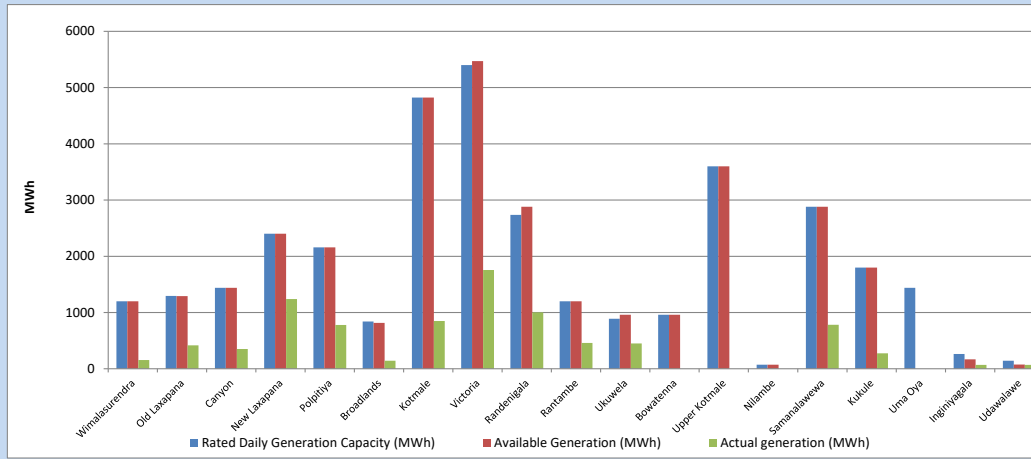


Plant availability is recorded at 6.00 am on

April 15, 2024

7. Major Hydro Plant Dispatch

April 14, 2024

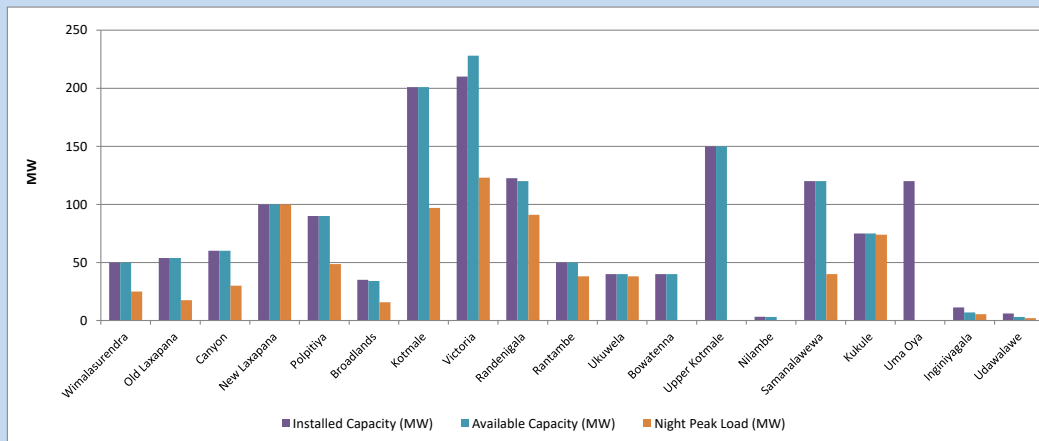


Available Generation is estimated based on plant availability at 6.00am on
Broadlands power plant is operating in the Commissioning Stage

April 15, 2024

8. Major Hydro Plant Loading at Night Peak

April 14, 2024



Plant availability is recorded at 6.00 am on
Broadlands power plant is operating in the Commissioning Stage

April 15, 2024

9. Summary of Major Plant performance

Table 05

Plant	Maximum Available Total Capacity	Plant Availability	Night peak Load	Plant Dispatch
	(MW)	(MW)	(MW)	(MWh)
Wimalasurendra	50	50	25	156
Old Laxapana	54	54	18	416
Canyon	60	60	30	353
New Laxapana	100	100	100	1,240
Polpitiya	90	90	49	780
Broadlands	35	34	16	144
Kotmale	201	201	97	850
Victoria	210	228	123	1,755
Randenigala	123	120	91	1,004
Rantambe	50	50	38	460
Ukuwela	40	40	38	449
Bowatenna	40	40	0	0
Upper Kotmale	150	150	0	0
Nilambe	3	3	0	0
Samanalawewa	120	120	40	783
Kukule	75	75	74	275
Uma Oya (Testing)	120	0	0	0
Inginiyagala	11	7	5	68
Udawalawe	6	3	2	69
Puttalam Coal I	270	0	0	0
Puttalam Coal II	270	270	272	6,034
Puttalam Coal III	270	270	269	5,714
KPS Small GTs	54	16	0	0
KPS GT 7	115	115	0	0
KCCP	165	150	0	0
Sapugaskanda A	70	48	43	907
Sapugaskanda B	72	54	54	1,076
Uthura Janani	22	16	16	235
Barge CEB	62	60	45	925
CEB-Hambantota	30	20	0	0
CEB-Mathugama	20	12	0	0
ACE Matara	24	0	0	0
Asia Power	50	0	0	0
KCCPS -2	163	155	0	0
West Coast	270	270	138	1,991
Nothern Power	36	0	0	0
ACE Embilipitiya	93	0	0	0
Total	3,594	2,880	1,717	29,000

Note-

Plant availability is the availability recorded at 6 am on

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Installed Capacity is sourced from CEB Annual Report- 2022

10. Contribution to the Night Peak in MW

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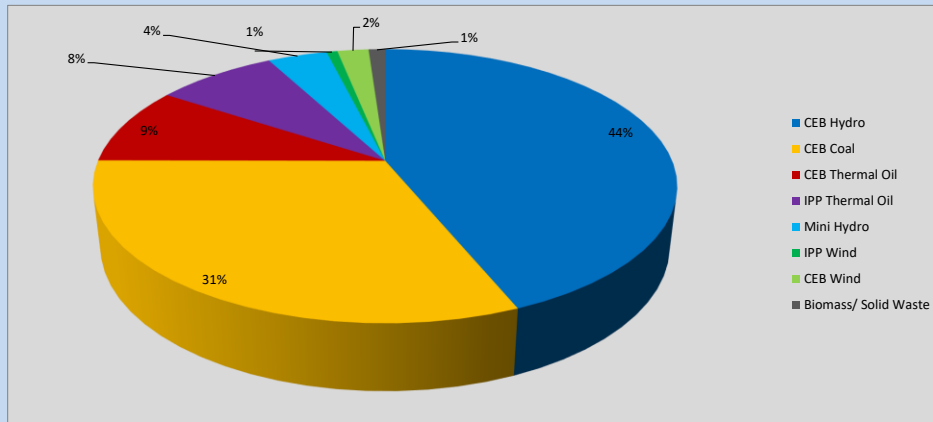


Table 06

CEB Hydro	756	MW
CEB Coal	541	MW
CEB Thermal Oil	158	MW
IPP Thermal Oil	138	MW
Mini Hydro (Telemetered)	68	MW
IPP Wind	12.5	MW
CEB Wind	35.7	MW
Biomass/ Solid Waste	19	MW

Recorded Peak Demand Data

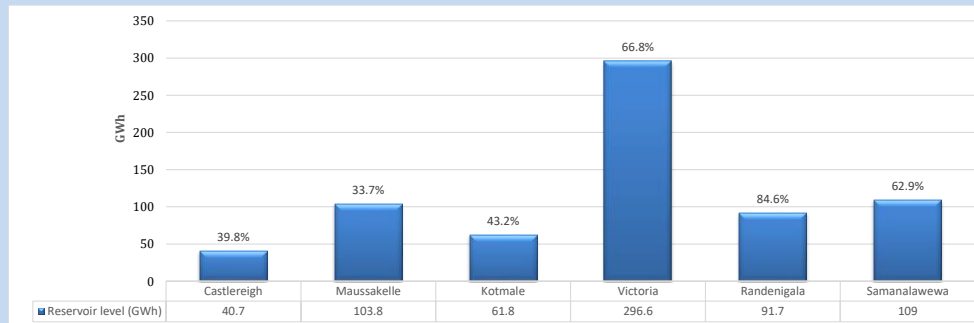
Table 07

Night Peak*	1,728	MW
Day Peak Maximum Demand	1,374	MW
Day Peak Minimum Demand	870	MW
Off Peak Minimum Demand	1,140	MW

Above figures are excluding contribution from roof top solar, non telemetered solar and mini hydro plants

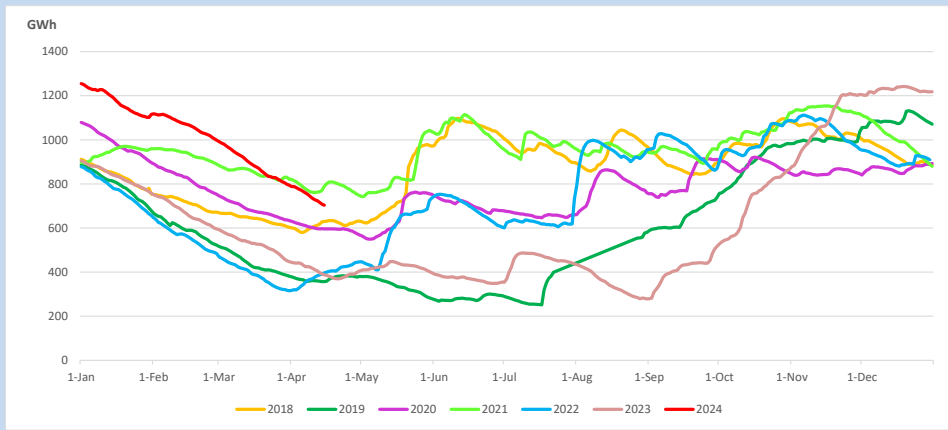
Reservoir Levels -

as at 06.00 Hr on April 15, 2024

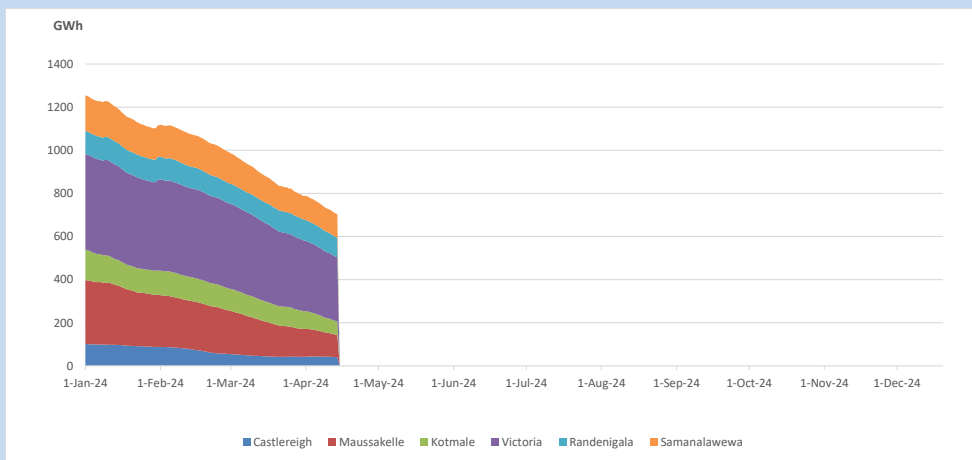


Total Reservoir Level 703.6 GWh
% of Total capacity 55.0%

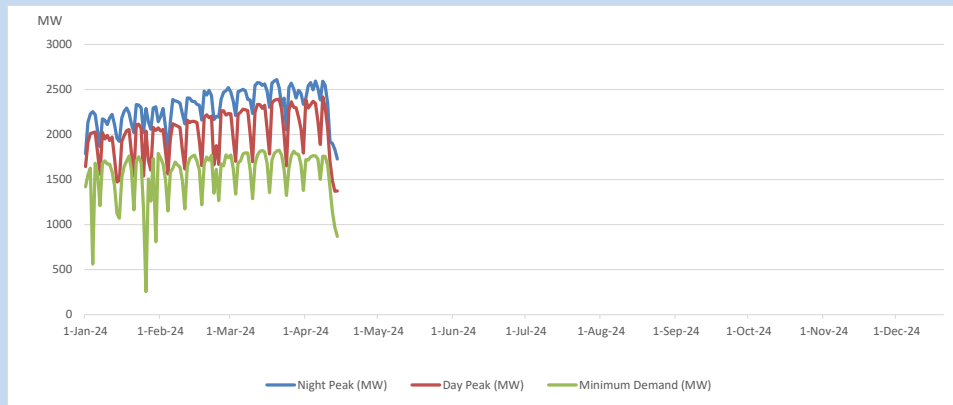
11. Comparison of Total Reservoir Storage Levels with Past Years



12. Variation of Major Hydro Reservoir Levels in the current year (GWh)



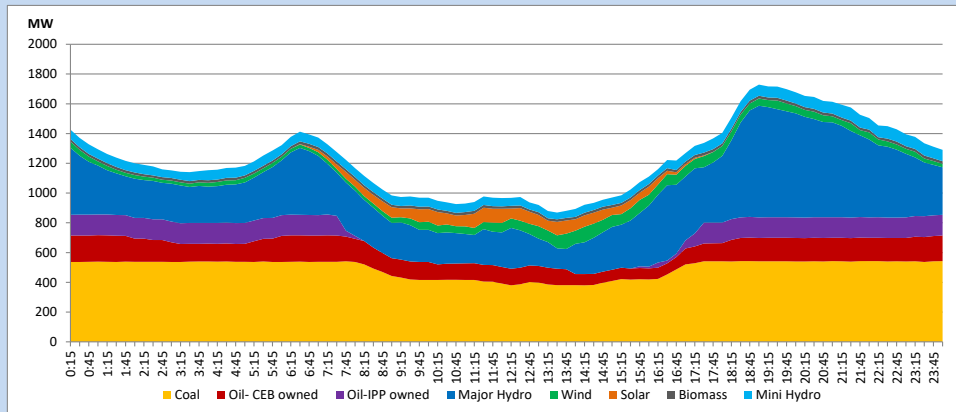
13. Variation of Demand during the current year



The above figures are excluding contribution from roof top solar, non telemetered solar and mini hydro plants

14. Daily Load Curve

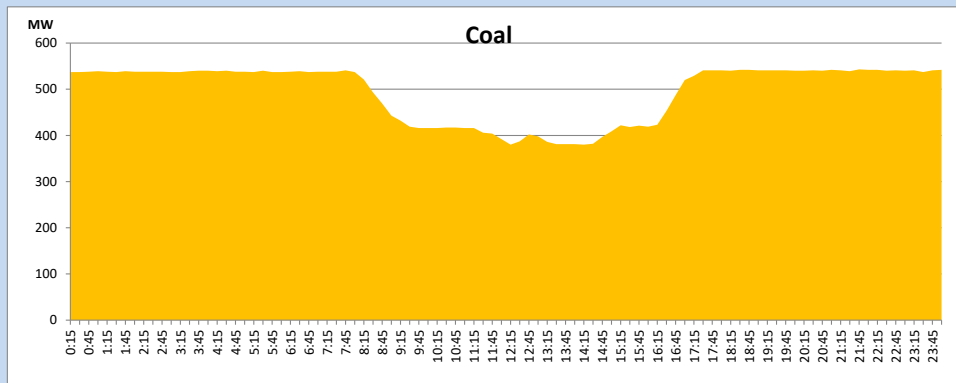
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Solar and wind data is based on Telemetered Power Stations only

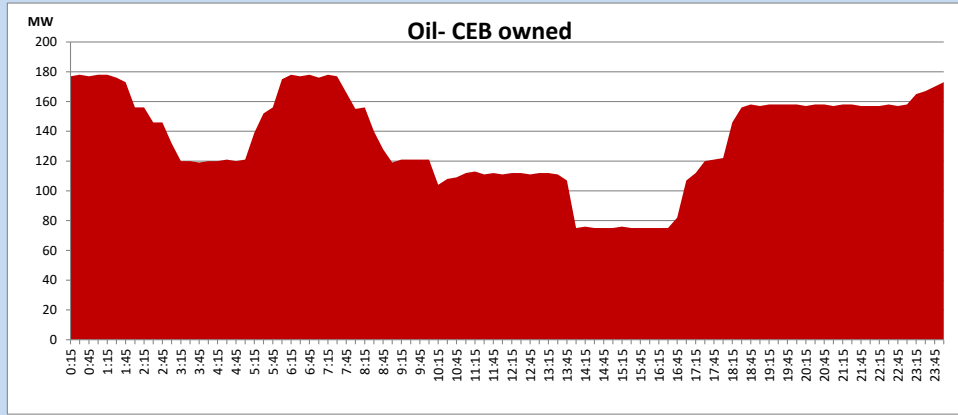
Coal Generation during

April 14, 2024



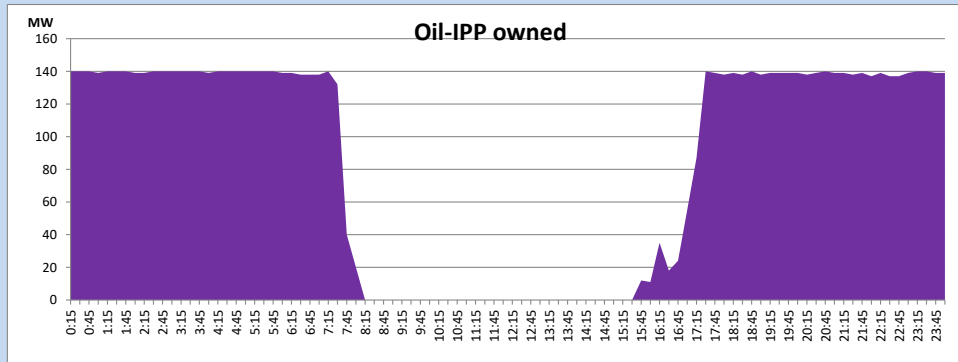
CEB Oil Plant Generation during

April 14, 2024



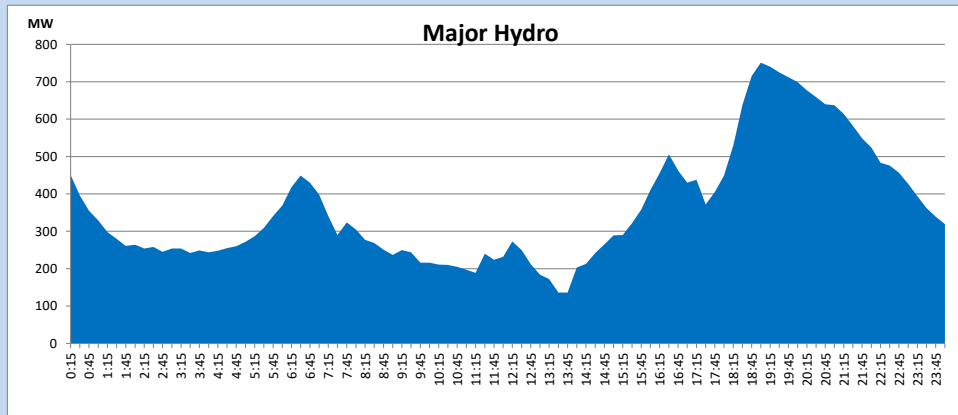
IPP Oil Plant Generation during

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Major Hydro Generation during

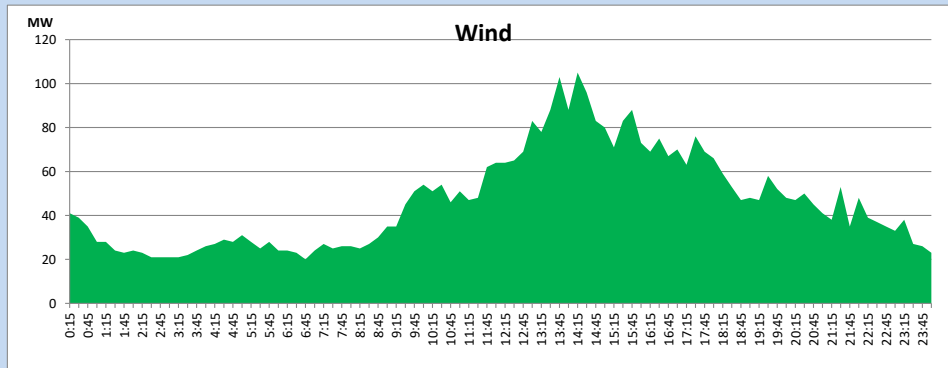
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Wind Generation during

April 14, 2024

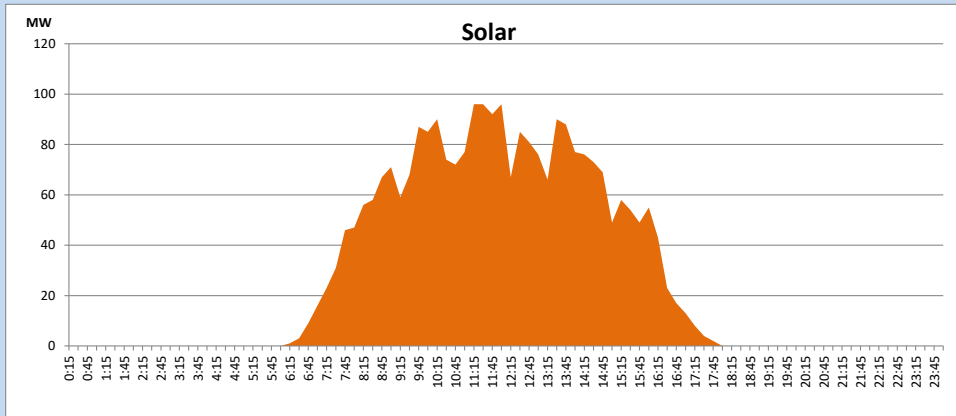
Based on Telemetered Power Stations only



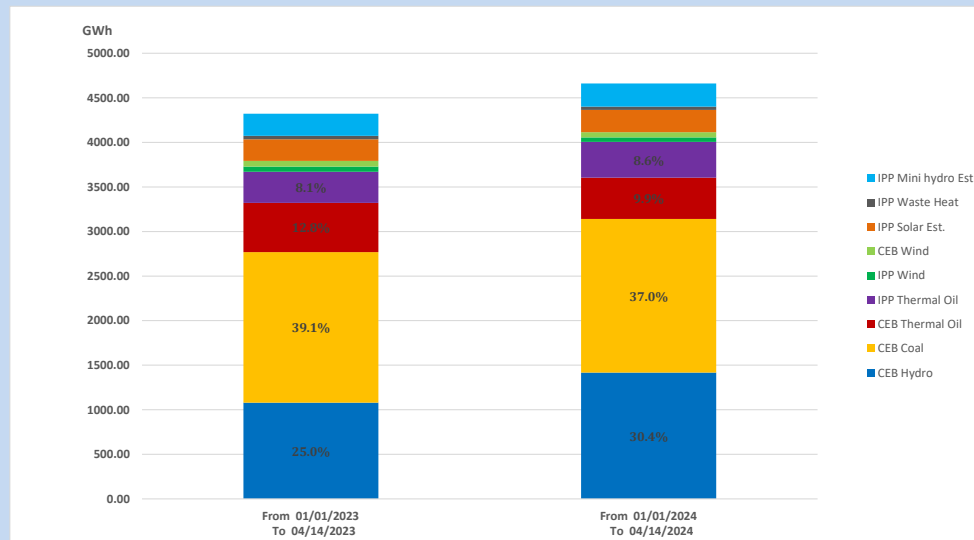
Solar Generation during

April 14, 2024

Based on Telemetered Power Stations only



15. Cumulative Dispatch Comparison with Last Year



Cumulative dispatch

From 01/01/2023 To 04/14/2023

4321 GWh

From 01/01/2024 To 04/14/2024

4661 GWh

The above figures are including contribution from roof top solar, non telemetered solar and mini hydro plants)

Unserviced energy due to power cuts has been excluded in 2023

Thermal Plant Fuel types

Table 08

Power Station	Primary Fuel
CEB Thermal	
Sapugaskanda 1	Heavy Fuel
Sapugaskanda 2	Heavy Fuel
Kelanitissa Small Gas Turbines	Auto Diesel
GT 7 - Kelanitissa	Auto Diesel
Kelanitissa CCY	Naphtha or Diesel
Lakvijaya 1	Coal
Lakvijaya 2	Coal
Lakvijaya 3	Coal
Uthuru Janani	Heavy Fuel
Barge CEB	Heavy Fuel
KCCPS -2	Auto Diesel

Power Station	Primary Fuel
Private Thermal	
West Coast	Auto Diesel / Heavy Fuel

Major Incidents reported during the day

April 14, 2024

- 1) Biyagama - Kothmale 220kV cct 1 and 2 tripped and A/R from both ends at 16:11hrs due to the operation of distance protection. Again, Biyagama - Kothmale 220kV cct 1 and 2 tripped and A/R from both ends at 16:17hrs due to the operation of distance protection.
- 2) N'Polpitiya - Padukka cct 1 and 2 tripped and A/R from both ends at 16:13hrs end due to the operation of distance protection.
- 3) Athurugiriya - New Polpitiya - Thulhiriya 132kV cct tripped from New Polpitiya end and tripped & A/R from Athurugiriya end at 16:17hrs due to the operation of distance protection. At the same time, Athurugiriya - Polpitiya - Thulhiriya 132kV cct tripped from Thulhiriya end and tripped & A/R from Athurugiriya and Polpitiya ends due to the operation of distance protection. The ccts were normalized by 16:22hrs and 16:23hrs respectively.